

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicants:** Ahern *et al.*

**Conf. No.:** 3625

**Serial No.:** 09/579,677

**Art Unit:** 2194

**Filing Date:** 05/26/2000

**Examiner:** Anya, Charles E.

**Title:** ADMINISTRATION OF GROUPS OF  
COMPUTER PROGRAMS, DATA  
PROCESSING SYSTEMS, OR  
SYSTEM RESOURCES

**Docket No.:** GB9-2000-0076-US1  
(IBMR-0064)

**AMENDMENT**

1-5. (Canceled).

6. (Currently Amended) A command interface for a computer program stored on a computer readable medium for issuing commands for administration of the computer program and other computer programs which have been defined as a group of computer programs within a group of cooperating communication managers, the command interface providing a set of commands having the following parameters:

a command target qualifier, wherein particular parameter values of the command target qualifier determine which group of cooperating communication managers and which communication managers of the group of cooperating communication managers to which the command should be targeted; and

a scope definition, wherein particular parameter values of the scope definition are associatable with respective computer system resources of the computer program that are used in processing of data, and wherein a parameter value of the scope definition determines which of

the respective computer system resources the command should be applied to by reference to their associated command target qualifier parameter values,

wherein the set of commands includes a define command for defining a new computer system resource, wherein a scope definition parameter value specified in said define command is associated with said computer system resource in response to issuing the command and wherein the scope definition parameter value determines the scope of access and change rights for the computer system resource and determines whether the computer system resource should be stored in a shared access memory which is accessible by all cooperating communication managers in said group of cooperating communication managers or should be stored in unshared local memory of an individual cooperating communication manager indicated by said command target qualifier, and

wherein the cooperating communication managers are queue managers, and wherein the computer program is a queue.

7. (Canceled).

8. (Previously Presented) A command interface according to claim 6, wherein said command target qualifier has at least a first specifiable parameter value indicating that a single command should be applied to all members of the group of cooperating communication managers and a second specifiable parameter value indicating that a command should be targeted to an individual cooperating communication manager of the group of cooperating communication managers.

9. (Currently Amended) A data processing system including:

at least one computer program defined as a member of a group of computer programs within a group of cooperating communication managers;

a command interface for issuing commands for administration of the at least one computer program and other members of the group of computer programs, wherein the command interface provides a set of commands having the following parameters:

a command target qualifier, wherein particular parameter values of the command target qualifier determine which group of cooperating communication managers and which cooperating communication managers of the group to which the command should be targeted; and

a scope definition, wherein particular parameter values of the scope definition are associatable with respective computer system resources of the at least one computer program that are used in processing of data for communicating among application programs, and wherein a scope definition parameter value specified in a command determines which of the respective computer system resources the command should be applied to by reference to the computer system resources' associated command target qualifier parameter values;

means for accessing a first memory from one of the group of cooperating communication managers, which first memory is inaccessible from other members of the group of cooperating communication managers; and

means for accessing a second memory from said one of the group of cooperating communication managers, which second memory is accessible from all members of the group of cooperating communication managers;

wherein the set of commands includes a define command for defining a new computer system resource, wherein a scope definition parameter value specified in said define command is

associated with said computer system resource in response to issuing the command and wherein the scope definition parameter value determines the scope of access and change rights for the computer system resource including determining whether the computer system resource should be stored in said second memory which is accessible by all cooperating communication managers of said group of cooperating communication managers or should be stored in unshared memory of an individual cooperating communication manager indicated by said command target qualifier, and

wherein the cooperating communication managers are queue managers, and wherein the at least one computer program is a queue.

10-11. (Canceled).

12. (Currently Amended) A method for controlling a group of computer programs within a group of cooperating communication managers which access computer system resources held in computer system memory, the method including the steps of:

in response to a command being issued which specifies an operation and a command target qualifier, determining which cooperating communication managers within said group of cooperating communication managers to which the command should be targeted;

in response to the command specifying a scope definition, determining which computer system resources of the determined computer programs the operation is to be performed on, wherein the system resources are used by the determined computer programs to process data for communicating among application programs; and

performing the operation on the determined resources of the determined computer programs;

in response to a define command being issued which specifies a define operation for defining a computer system resource and which specifies a command target qualifier, determining which cooperating communication managers within said group of cooperating communication managers to which the define operation should be targeted; and

in response to the define command specifying a scope definition, performing the define operation and associating the specified scope definition with the computer system resource, thereby to determine the scope of access and change rights for the computer system resources and to determine whether the computer system resources should be stored in shared access that is accessible to each of the group of cooperating communication managers or in unshared memory, and storing said computer system resource in said determined memory,

wherein the cooperating communication managers are queue managers, and wherein the determined computer programs are queues.

13-17. (Canceled).